

Title (en)

Miniature device to execute a predetermined function, in particular a microrelay

Title (de)

Miniaturvorrichtung zur Durchführung einer vorbestimmten Funktion, insbesondere Mikro-Relais

Title (fr)

Dispositif miniature pour exécuter une fonction prédéterminée, notamment microrelais

Publication

**EP 0780858 B1 20000223 (FR)**

Application

**EP 96402827 A 19961219**

Priority

FR 9515371 A 19951222

Abstract (en)

[origin: EP0780858A1] The microminiature relay mechanism includes a swinging arm mechanism (19) which is flexible and mounted on a central bridge (28). The two arm ends have magnetic material end strips (20,21). The substrate has a lower magnetic layer (6a,6b) and side protruding magnetic contacts (9) matching the magnetic arm ends. Magnetic coils (10,10a,10b,11,11a,11b) are provided by photoetching magnetic strips on the substrate surface. The magnetic circuit at either end can selectively close the arm.

IPC 1-7

**H01H 1/00**; **H01H 51/22**

IPC 8 full level

**H01H 49/00** (2006.01); **H01H 50/00** (2006.01); **H01H 51/22** (2006.01); **H01L 21/302** (2006.01); **H01L 49/00** (2006.01); **H05K 13/04** (2006.01); **H01H 1/20** (2006.01)

CPC (source: EP US)

**H01H 50/005** (2013.01 - EP US); **H01H 1/20** (2013.01 - EP US); **H01H 2050/007** (2013.01 - EP US)

Cited by

DE19820821C1; US6492887B1; US7253710B2; US7420447B2; US7250838B2; WO9927548A1; WO0157899A1; US7202765B2; US7027682B2; US7183884B2; US6836194B2; US6469603B1; US6469602B2; US7342473B2; US7300815B2; US7215229B2; US7266867B2; US7391290B2; US7327211B2; US6794965B2; US6633212B1; US7071431B2; US7372349B2; US6894592B2; US6496612B1

Designated contracting state (EPC)

CH DE FR GB IT LI

DOCDB simple family (publication)

**EP 0780858 A1 19970625**; **EP 0780858 B1 20000223**; DE 69606760 D1 20000330; DE 69606760 T2 20001012; FR 2742917 A1 19970627; FR 2742917 B1 19980213; JP H09198983 A 19970731; US 5889452 A 19990330

DOCDB simple family (application)

**EP 96402827 A 19961219**; DE 69606760 T 19961219; FR 9515371 A 19951222; JP 35540096 A 19961224; US 77022196 A 19961219